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PROCEEDINGS.

THIRTY-SECOND ANNUAL MEETING OF THE KANSAS ACADEMY OF SCIENCE, DECEMBER 28-30, 1899.

McPHERSON, KAN., December 28, 1899.

The Kansas Academy of Science convened for the thirty-second annual meeting at McPherson, Kan. The opening session was held in the assembly hall of the high-school building.

The Academy was called to order by Vice-president A. S. Hitchcock, at 7:30 P. M., December 28, 1899.

The following-named members were present: E. H. S. Bailey, J. W. Beede, F. W. Bushong, H. J. Harnly, A. S. Hitchcock, A. W. Jones, Warren Knaus, D. E. Lantz, Ephraim Miller, F. O. Marvin, J. R. Mead, L. E. Sayre, J. E. Shacklett, A. J. Smith, and B. B. Smyth.

Vice-president Hitchcock appointed the following committees:

On program: Warren Knaus, D. E. Lantz, J. W. Beede.

On membership: L. E. Sayre, B. B. Smyth, H. J. Harnly.

For the information of members present, the minutes of the thirty-first annual meeting were read.

The committee on program made a report, which was adopted, and the following papers were then taken up and read:

1. The first great roof, by Chas. H. Sternberg. (Read by the secretary.)

2. *Apocynum cannabinum*, by L. E. Sayre.

3. Some geologic phenomena in central Missouri, by S. Z. Sharp. (Read by the secretary.)

The committee on members reported the following names for membership:

Prof. L. H. Shattuck, Holton.

J. C. Cooper, Topeka.

J. S. Dawson, Hill City.

L. D. Arnold, Salina.

H. W. Charles, Washington.

S. G. Mead, McPherson.

J. E. Welin; Lindsborg.

On motion, the above were duly elected. After announcements by the local members, the Academy adjourned, to meet at nine A. M. on Friday morning.

FRIDAY MORNING, December 29.

The Academy was called to order by Vice-president Hitchcock at nine o'clock A. M.

The following committees were appointed :

On nominations: J. R. Mead, E. Miller, F. W. Bushong.

On resolutions: E. H. S. Bailey, J. C. Cooper, L. D. Arnold.

On necrology: B. B. Smyth, Warren Knaus.

On auditing accounts of treasurer: A. W. Jones, F. O. Marvin, A. J. Smith.

The librarian made a verbal report of the work done during the past year. The report was accepted by vote.

The treasurer reported the amount of money on hand as \$50.90. The report was referred to the auditing committee.

The committee on legislation appointed at the thirty-first annual meeting reported, through the chairman, D. E. Lantz. The report was accepted, and on motion the committee was continued.

The following were recommended for membership, and duly elected :
Mark White, Winfield.

O. F. Stafford, Lawrence.

The following papers were then presented :

4. On an ancient Pueblo village in western Kansas, by S. W. Williston. (Read by title.)

5. Secondary gypsum deposits in the United States, by G. P. Grimsley. (Read by title.)

6. Geology of the Glass mountains of western Oklahoma, by Mark White. (Read by the secretary.)

7. Silica cement mortars, by Col. W. Tweeddale. (Read by B. B. Smyth.)

8. Home of the Kansas tiger beetles, by Warren Knaus.

9. On the heating value of coal, by E. H. S. Bailey.

10. Some Kansas pyrites, by J. C. Cooper.

Mr. Cooper showed some beautiful specimens of spherical nodules of pyrites which excited much interest.

On motion, the Academy adjourned, to meet at two o'clock P. M.

FRIDAY AFTERNOON, December 29.

The Academy was called to order at two P. M. by Vice-president Hitchcock.

The minutes of the session of Thursday evening were read and approved.

The membership committee reported favorably on the following-named persons, and they were duly elected :

C. F. Gustafson, McPherson.

Davis Boyles, Salina.

The committee on membership also reported the following as entitled to life membership: E. Miller, S. A. Baldwin, I. D. Graham, D. M. Valentine. On motion, they were duly elected.

The question of time and place for the next annual meeting was made a special order for four o'clock.

The reading of papers was then continued.

11. On the Leonid meteors of 1833, by J. R. Mead.
 12. An example of variation in the human cranium, by H. J. Harnly.
 13. Additions to the flora of Kansas, by A. S. Hitchcock.
 14. On testing paving bricks, by F. O. Marvin.
 15. Mirages, by B. B. Smyth. (Read by title.)
 16. An historical list of Kansas mammals, by D. E. Lantz. (By title.)
 17. A plan for a small astronomical observatory, by E. B. Knerr. (By title.)
 18. On the selachians of the Kansas Cretaceous, by S. W. Williston. (By title.)
 19. Stratigraphy of southeastern Kansas, by Geo. I. Adams. (By title.)
 20. On some Diatomaceæ of Topeka and vicinity, by Geo. H. Curtis.
 21. Analysis of magnesia waters near Madison, by F. W. Bushong.
 22. Technique in the study of Coccidæ, by S. J. Hunter and W. S. Sutton. (By title.)
 23. Collecting notes from southwest Kansas, by Warren Knaus.
 24. Additions to the list of Kansas Coleoptera, by Warren Knaus.
 25. On the electrical conductivity of liquid ammonia solutions, by E. C. Franklin. (By title.)
- At this point the question of time and place of the next meeting was taken up and discussed by several members. On motion, the matter was left to the executive board for decision.
- The reading of papers was continued.
26. The softening and purifying of water by the Tweeddale process, by W. Tweeddale. (Read by title.)
 27. *Melanoplus differentialis* and *M. bivittatus* in Kansas, by Hunter and Sutton. (By title.)
 28. Notes of a trip through western Wyoming, by J. R. Mead.
 29. The host-plants of Kansas Coccidæ, by P. J. Parrott. (By title.)
 30. The orthopteran genus *Melanoplus* in Kansas, by Hunter and Sutton. (By title.)
 31. A comparison of the faunas of the Permian in England and America, by J. W. Beede.

32. Harmonic forms, by B. B. Smyth.

33. A geological section of Lyon and Chase counties along the Cottonwood river, by A. J. Smith.

On motion, adjourned until 7:30 p. m.

FRIDAY EVENING, December 29.

The Academy met in the assembly hall of the high school at 7:30 p. m.

The minutes of the morning and afternoon sessions were read and approved.

Miss Grace R. Meeker, Ottawa, having been recommended by the committee, was elected to active membership.

The committee on nominations recommended the following for officers of the Academy for the ensuing year:

President, A. S. Hitchcock, Manhattan.

First vice-president, Ephraim Miller, Lawrence.

Second vice-president, J. C. Cooper, Topeka.

Secretary, D. E. Lantz, Chapman.

Treasurer, J. W. Beede, Effingham.

Librarian, B. B. Smyth, Topeka.

Curators, B. B. Smyth, Topeka; Warren Knaus, McPherson; G. P. Grimsley, Topeka; Edward Bartow, Lawrence.

On motion, they were duly elected.

The committee on resolutions presented the following, and, on motion, it was adopted:

Resolved, That the hearty thanks of the Academy are hereby tendered to the faculty of McPherson College and the citizens of McPherson for their hospitality; and to the authorities of the high school and the newspapers of the city for numerous favors extended.

E. H. S. BAILEY,
J. C. COOPER,
L. D. ARNOLD,
Committee.

The auditing committee reported that they had examined the accounts of the treasurer and found them to be correct. The report was accepted.

The committee on necrology reported that no members of the Academy had died during the past year.

34. Prof. E. Miller then read a paper entitled "The Corona of the Sun." The lecture was illustrated with numerous lantern views.

The address of the retiring president, E. B. Knerr, was then presented by the secretary, Professor Knerr having been detained at home by the illness of his wife.

On motion of Doctor Sayre, the secretary was directed to convey to Professor Knerr an expression of the appreciation of the address by the members of the Academy.

Other papers presented were :

35. Some further remarks on the Mentor Beds, by A. W. Jones.
(By title.)

36. On some public water-supplies, by E. H. S. Bailey. (By title.)

37. A contribution to the origin of gypsum beds, by E. H. S. Bailey and M. K. Shaler.

38. Ecological areas in Florida flora, by A. S. Hitchcock. (By title.) An oral abstract of the paper was given by the author.

The minutes of the present session were read and approved.

On motion, adjourned to meet at nine o'clock Saturday morning, in the parlor of the Commercial hotel.

SATURDAY MORNING, December 30.

The Academy met pursuant to adjournment; President Hitchcock in the chair.

J. H. Newby, Osage City, Kan., was elected to active membership.

A motion was passed requesting Profs. F. O. Marvin and A. S. Hitchcock to deliver lectures before the Academy at Topeka during the coming year, and that the arrangements for the lectures be left to the executive committee.

On motion, adjourned *sine die*.

D. E. LANTZ, *Secretary*.

THIRTY-THIRD ANNUAL MEETING OF THE KANSAS ACADEMY OF SCIENCE, DECEMBER 28-29, 1900.

TOPEKA, KAN., December 28, 1900.

The Kansas Academy of Science met for the thirty-third annual meeting at Topeka. The opening session was held in the old supreme court-room, in the state-house.

The Academy was called to order by President Hitchcock at ten o'clock A. M., December 28, 1900.

The following members were present: E. H. S. Bailey, W. C. Bauer, J. W. Beede, R. B. Dunlevy, C. N. Gould, C. F. Gustafson, H. J. Harnly, A. S. Hitchcock, Warren Knaus, E. B. Knerr, D. E. Lantz, J. R. Mead, Grace Meeker, E. Miller, W. K. Palmer, L. E. Sayre, L. H. Shattuck, Alva J. Smith, B. B. Smyth, A. H. Thompson, J. D. Walters, J. T. Willard, J. E. Welin, L. C. Wooster. A number of visitors were also present.

The record of business transacted at the last meeting of the Academy was read by the secretary.

The president appointed the following committees:

On program: C. N. Gould, D. E. Lantz, H. J. Harnly.

On membership: J. W. Beede, L. C. Wooster, W. C. Bauer.